

5 WHAT IS CLAIMED IS:

1. A vertical bag form-fill-seal packaging machine for forming bags by sealing a continuous tubular packaging material in which a product to be packaged is filled, and for separating and ejecting each of the bags, the machine comprising:

a first transfer unit for transferring the separated bags to another transfer unit or transfer machine provided in a downstream process,

a first drive unit for driving the first transfer unit, and  
a control unit for controlling the first control unit, said control unit controlling the bag ejection interval or the posture of the bags to be ejected after being transferred by the first transfer unit.

2. The machine as defined in claim 1, wherein the control unit provides control so that the bag ejection interval is larger than the bag separation interval.

3. The machine as defined in claim 1, wherein the first transfer unit is a belt.

4. The machine as defined in claim 2, wherein the first transfer unit is a belt.

5. The machine as defined in claim 3, wherein the belt is inclined so that the bags move diagonally downward.

6. The machine as defined in claim 4, wherein the belt is inclined so that the bags move diagonally downward.



5 first transfer unit, and

a second drive unit for driving the second transfer unit, wherein the control unit further controls the second drive unit.

13. The machine as defined in claim 12, wherein the transfer unit is a belt with a guide bar approximately orthogonal to the direction of transfer.

10 14. The machine as defined in claim 1, further comprising a memory storage unit for storing control settings for each set of products to be packaged, wherein the control unit performs control according to the settings stored in the memory storage unit.

15. The machine as defined in claim 14, wherein at least one of the control setting items to be stored in the memory storage unit is the speed of the drive unit.

15 16. The machine as defined in claim 15, wherein the control unit provides data at least on the bag ejection time interval to the external equipment in the downstream process.

17. The machine as defined in claim 7, further comprising a memory storage unit for storing control settings for each set of products to be packaged, wherein the control unit performs control according to the settings stored in the memory storage unit.

18. The machine as defined in claim 17, wherein at least one of the control setting items to be stored in the memory storage unit is the speed of the drive unit.

- 5            19.    The machine as defined in claim 18, wherein the control unit provides data at least on the bag ejection time interval to the external equipment in the downstream process.

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